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AUTHORITY

onr ltr, 26 oct 1977

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PRINCETON UNIVERSITY
PRINCETON, NEW JERSEY
SCHOOL OF ENGINEERING, JOHN C. GREEN FOUNDATION

FC

April 4, 1956

DEPARTMENT OF AERONAUTICAL ENGINEERING
THE JAMES FORRESTAL RESEARCH CENTER

To:

Commanding Officer
Office of Naval Research
Air Branch/Code 461
Department of the Navy
Washington 25, D. C.

Subject: Tandem Helicopter Stability Program, Status Report for the month of March, 1956.

Contract N6 onr-27024

Flight Test Operations:

Despite unusually poor flying conditions during the month of March, several lateral static stability data flights were accomplished and the results are under analysis.

A report entitled, "Instrumentation of a Tandem Helicopter for Static and Dynamic Stability and Control Flight Tests", has been completed and is now being printed. Distribution is expected shortly.

Theoretical Analysis:

Studies have been continued of the variation of the stability derivatives with speed. These are being compared with preliminary flight results. Analog computer studies of dynamic response based on the theoretical derivatives are continuing. Preliminary results indicate that considerable simplification of the complete equations of motion is permissible over most of the speed range.

Very truly yours,

Leonard Goland

LEONARD GOLAND
Chief Project Engineer

LG/nt

cc:

3 - Commanding Officer, ONR, Wash.
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